

Translation

PATENT COOPERATION TREATY

PCT/EP2003/051002



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

|   |   |   |
|---|---|---|
| Applicant's or agent's file reference<br>62964  | <b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) |   |
| International application No.<br>PCT/EP2003/051002  | International filing date (day/month/year)<br>15 décembre 2003 (15.12.2003)   | Priority date (day/month/year)<br>17 décembre 2002 (17.12.2002) |
| International Patent Classification (IPC) or national classification and IPC<br>H03C 5/00 |   |   |
| Applicant<br>THALES   |   |   |

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| 1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.  |
| 2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.<br><br><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).<br><br>These annexes consist of a total of <u>2</u> sheets.  |
| 3. This report contains indications relating to the following items:<br><br>I <input checked="" type="checkbox"/> Basis of the report<br>II <input type="checkbox"/> Priority<br>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability<br>IV <input type="checkbox"/> Lack of unity of invention<br>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement<br>VI <input type="checkbox"/> Certain documents cited<br>VII <input type="checkbox"/> Certain defects in the international application<br>VIII <input type="checkbox"/> Certain observations on the international application |

|  |   |
|--|---|
| Date of submission of the demand<br>05 juillet 2004 (05.07.2004) | Date of completion of this report<br>27 January 2005 (27.01.2005) |
| Name and mailing address of the IPEA/EP                          | Authorized officer  |
| Facsimile No.  | Telephone No.   |

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2003/051002

## I. Basis of the report

### 1. With regard to the elements of the international application:\*

- ☐ the international application as originally filed
- ☒ the description:  
 pages 1-11, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☒ the claims:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, as amended (together with any statement under Article 19  
 pages \_\_\_\_\_, filed with the demand  
 pages 1-12, filed with the letter of 12 January 2005 (12.01.2005)
- ☒ the drawings:  
 pages 1/3-3/3, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

### 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

### 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

### 4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

### 5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/EP 03/51002

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

|                               |        |      |     |
|-------------------------------|--------|------|-----|
| Novelty (N)                   | Claims | 1-12 | YES |
|                               | Claims |      | NO  |
| Inventive step (IS)           | Claims | 1-12 | YES |
|                               | Claims |      | NO  |
| Industrial applicability (IA) | Claims | 1-12 | YES |
|                               | Claims |      | NO  |

### 2. Citations and explanations

Reference is made to the following document:

D1: US 4 194 154 A

1. D1 is the most relevant document cited in the international search report. It discloses features equivalent to those mentioned in the second paragraph of the description of the present application.

None of the cited documents discloses or suggests a correction method or a correction loop comprising the correction of an envelope parameter by means of a corrector obtained by searching, among predetermined values, for the value of the corrector corresponding to the minimum digital signal processing channel output signal out-of-band noise power, with correction depending on said corrector, as defined in independent claims 1 and 2.

This solves the problem addressed by the application, as expressed in the last paragraph of page 1 of the description, namely that of providing an alternative solution for correcting a digital signal from a digital signal processing channel, in which the use of the initial signal is not necessary.

Consequently, in the light of the cited prior art documents, independent claims 1 and 2 meet the requirements of novelty and inventive step according to PCT Article 33(2) and 33(3), respectively.

2. The dependent claims relate to useful embodiments of the subject matter as defined in the independent claims. Dependent claims 3 to 12 therefore also meet the requirements of novelty and inventive step according to PCT Article 33(2) and 33(3).

3. Contrary to the requirements of PCT Rule 6.2(b), the claims contain reference signs that have not been placed between parentheses, for example the reference sign pc in the first line of claims 1 and 2 or the reference sign c in line 7 of claim 1.

The additional feature of dependent claim 11 does not meet the requirements of clarity of PCT Article 6, since the expression "Kahn's method" refers to a method that is not defined in the claims of the present application.